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C2  
C3  
layering a pair of spaced apart electrodes on said carbonaceous thin film such that said fullerene polymer film is formed at least in the space between said electrodes.

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C3  
21. (twice amended) The method for manufacturing a carbonaceous complex structure according to claim 12 wherein

said fullerene polymer film is formed by vapor deposition of fullerene molecules to form a vapor-deposited film and then illuminating said film of fullerene molecules by electromagnetic waves to polymerize said fullerene molecules.

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Please add the following claims:

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C4  
25. (new) A method for manufacturing a carbonaceous complex structure comprising:  
a step of forming a first electrode having a surface with a roughness Ra set to not larger than 1  $\mu\text{m}$  on a substrate;  
a step of forming a carbonaceous thin film on the surface of the first electrode;  
a step of forming a fullerene polymer film on said thus formed carbonaceous thin film;  
and  
a step of forming a second electrode on said thus formed fullerene polymer film.

26. (new) The method for manufacturing a carbonaceous complex structure according to claim 25 wherein  
said substrate and the first electrode are transparent.

27. (new) The method for manufacturing a carbonaceous complex structure according to claim 12 wherein  
said carbonaceous thin film is formed by thermal decomposition of an organic compound.

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### REMARKS

Pending, after amendment, are claims 12, 14, 20, 21, and 24-27. New claims 25-27 generally correspond to original claims 15, 16, and 18, respectively. The amendment to claims